

Morton Arboretum, Lisle, Illinois 60532, United States. Received 08/24/1984.

PI 588905. *Malus x zumi* (Matsum.) Rehder

Zumi Crab. Collected 1892 in Unknown. Likely collected by C.S. Sargent; habitat; Island of Honshu, Japan (rare). Pedigree - *M. baccata* 'mandshuriana' x *M. sieboldii*. Comments:: Flowers: 5-6 cluster, 5 petals; bud rose red, expanding-yellowish white with rose along petal edge; open-white with trace of pink on edges. Fruit: Yellow to orange, sometimes with faint blush; angular 5/16" to 7/16".

The following were collected by F.C. Stern, Sussex, Goring-by-Sea, Highdown, England, United Kingdom. Developed by Arnold Arboretum, The Arborway, Jamaica Plain, Massachusetts 02130, United States. Donated by Thomas Green, The Morton Arboretum, Lisle, Illinois 60532, United States. Received 08/24/1984.

PI 588906. *Malus toringoides* (Rehder) Hughes

Macrocarpa. Collected 1939 in Unknown. Goring-by-the-Sea, Sussex, England. Pedigree - Raised from *M. toringoides* seed collected at the Arnold Arboretum. Comments:: Flowers: single, expanding buds pink or pinkish white, open- white, approx. 2.5 cm. across. Fruit: orange yellow and red with bluish bloom, approx. 2.5 cm. in diam.

The following were collected by J.F. Rock, United States Department of Agriculture, Washington, District of Columbia, United States. Developed by T.H. Goodspeed, University of California, Botanical Garden, Berkeley, California, United States. Donated by Thomas Green, The Morton Arboretum, Lisle, Illinois 60532, United States. Received 08/24/1984.

PI 588907. *Malus baccata* (L.) Borkh.

Himalaica. Collected 1919 in Unknown. Western Himalayas; Southwestern China. Material of known wild origin from seed collected in Yetsi Valley, North of Kulu in Muli territory, Szechwan, China, during the Univ. of California Bot. Garden Expedition. Pedigree - Wild Introduced 6/27/1933. Comments:: At one time, assigned PI No. 103288. Disease free.

The following were donated by Thomas Green, The Morton Arboretum, Lisle, Illinois 60532, United States. Received 08/24/1984.

PI 588908. *Malus sylvestris* Miller

French Crab.

The following were developed by Univ. of Minnesota State Fruit Farm, Excelsior, Minnesota, United States. Donated by Thomas Green, The Morton Arboretum, Lisle, Illinois 60532, United States. Received 08/24/1984.

PI 588909. *Malus* hybrid

Centennial. Pedigree - Originated and introduced 1957. Comments:: Flowers: white Fruit: bright red over yellow, approx. 4.8 cm. in diam.

The following were developed by Canada Department of Agriculture, Alberta, Canada. Donated by Thomas Green, The Morton Arboretum, Lisle, Illinois 60532, United States. Received 08/24/1984.

PI 588910. *Malus* hybrid

Snowcap. Pedigree - *M. baccata* seedling; received in 1941; introduced 1952. Comments:: Named by Research Station, Research Branch, Canada Dept. of Agr., Beaverlodge, Alberta, Canada. Extremely hardy. Disease free. Flowers: single, expanding buds tinged with pink, open-